

1 **CLAIMS**

2 **1.** A method comprising:

3 identifying at least one role associated with a target server;

4 identifying one or more services associated with the role;

5 identifying one or more ports associated with the role;

6 presenting the identified services and ports associated with the role to a
7 user; and

8 requesting the user to select among the identified ports for activation in the
9 target server.

10
11 **2.** A method as recited in claim 1 wherein the identified services and
12 ports are limited to those that are relevant based on information obtained from a
13 knowledge base.

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15 **3.** A method as recited in claim 1 wherein the identified services and
16 ports are limited to those that are relevant based on information regarding a target
17 server.

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19 **4.** A method as recited in claim 1 further comprising activating the
20 selected services and ports.

21
22 **5.** A method as recited in claim 4 wherein services associated with the
23 role are identified from a knowledge base.

1 **6.** A method as recited in claim 4 wherein ports associated with the role
2 are identified from a knowledge base.

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4 **7.** A method as recited in claim 1 further comprising deactivating the
5 unselected services and ports.

6
7 **8.** A method as recited in claim 1 further comprising generating an
8 output file containing services and ports selected by the user.

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10 **9.** A method as recited in claim 1 further comprising displaying details
11 regarding the role in response to a request by the user.

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13 **10.** A method as recited in claim 1 further comprising displaying a list
14 of options for handling a service associated with the target server that is not
15 defined in a knowledge base.

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17 **11.** A method as recited in claim 10 further comprising requesting the
18 user to select an option for handling the service.

19
20 **12.** One or more computer-readable memories containing a computer
21 program that is executable by a processor to perform the method recited in claim
22 1.

1 **13.** A method comprising:
2 identifying one or more roles associated with a target server;
3 identifying one or more services associated with the roles;
4 displaying the identified services associated with the roles;
5 allowing a user to modify the displayed services; and
6 identifying the selected services as active services and identifying the
7 unselected services as inactive services.

8
9 **14.** A method as recited in claim 13 wherein identifying services
10 associated with the role includes retrieving data from a knowledge base.

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12 **15.** A method as recited in claim 13 further comprising generating an
13 output file containing services modified by the user.

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15 **16.** A method as recited in claim 13 wherein the user is responsible for
16 configuring the target server.

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18 **17.** A method as recited in claim 13 further comprising generating an
19 output file identifying active ports and inactive ports.

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21 **18.** One or more computer-readable memories containing a computer
22 program that is executable by a processor to perform the method recited in claim
23 13.

1 **19.** A method comprising:
2 identifying a role associated with a target server;
3 identifying one or more ports associated with the role;
4 presenting the identified ports associated with the role to a user;
5 requesting the user to select among the identified ports associated with the
6 role; and
7 identifying the selected ports as active ports and identifying the unselected
8 ports as inactive ports.

9
10 **20.** A method as recited in claim 19 further comprising generating an
11 output file identifying ports selected by the user.

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13 **21.** A method as recited in claim 19 wherein the one or more ports are
14 identified using information contained in a knowledge base.

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16 **22.** A method as recited in claim 19 wherein the user is responsible for
17 configuring the target server.

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19 **23.** A method as recited in claim 22 further comprising:
20 displaying one or more ports associated with the role; and
21 requesting the user to select among the one or more ports to activate in the
22 target server.

1 **24.** One or more computer-readable memories containing a computer
2 program that is executable by a processor to perform the method recited in claim
3 19.

4
5 **25.** An apparatus comprising:
6 a pre-processor to receive information regarding server roles from a
7 knowledge base and to receive characteristics of a target server, wherein the pre-
8 processor generates a file containing server role information relevant to the target
9 server, and wherein information in the file regarding services and ports associated
10 with the server roles is presented to a user for selection; and

11 a configuration engine coupled to the pre-processor, wherein the
12 configuration engine configures the target server based on the user's selection of
13 services and ports.

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15 **26.** An apparatus as recited in claim 25 further comprising a user
16 interface application to generate an output file identifying services selected by the
17 user.

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19 **27.** An apparatus as recited in claim 25 further comprising a user
20 interface application to generate an output file identifying ports selected by the
21 user.

22
23 **28.** An apparatus as recited in claim 26 wherein the configuration
24 engine applies the output file when configuring the target server.
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1 **29.** An apparatus as recited in claim 27 wherein the configuration
2 engine applies the output file when configuring the target server.

3
4
5 **30.** One or more computer-readable media having stored thereon a
6 computer program that, when executed by one or more processors, causes the one
7 or more processors to:

8 identify a role associated with a target server;
9 identify one or more services associated with the role;
10 identify one or more ports associated with the role;
11 display the identified services and ports associated with the role; and
12 receive selected services and ports to be activated on the target server.

13
14 **31.** One or more computer-readable media as recited in claim 30
15 wherein the one or more processors further activate the selected services and ports
16 during configuration of the target server.

17
18 **32.** One or more computer-readable media as recited in claim 30
19 wherein the one or more processors further deactivate unselected services and
20 ports during configuration of the target server.

1 **33.** One or more computer-readable media as recited in claim 30
2 wherein the one or more processors further identify the one or more services and
3 the one or more ports associated with the role are identified from a knowledge
4 base.

5
6 **34.** One or more computer-readable media as recited in claim 30
7 wherein the one or more processors further display one or more options for
8 handling a service associated with the target server that is not defined in a
9 knowledge base.